

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 14, and add claims 22-27, as follows:

1 1. (Currently Amended) A mask for a color cathode ray tube, the mask comprising:
2 a plurality of strips being parallel to each other, being isolated distinguishable from each
3 other, and being located at predetermined intervals; and
4 a plurality of bridges connecting adjacent ones of said strips to each other and forming slots
5 extending from a first surface of said mask to a second surface of said mask, said slots being
6 penetrated by electron beams, said bridges being indented to a predetermined depth from said first
7 surface of said mask so that a thickness of said mask at a central portion of said bridges is relatively
8 thinner than a thickness of said mask at an outer portion of said bridges.

1 2. (Original) The mask of claim 1, said slots formed by said bridges including a first
2 slot, the electron beams entering said first slot at said second surface of said mask and exiting said
3 first slot at said first surface of said mask, said first slot at said second surface having a first center
4 as measured substantially parallel to said first surface of said mask, said first slot at said first surface
5 having a second center as measured substantially parallel to said first surface of said mask, said first
6 and second centers of said first slot not being aligned with each other.

1 3. (Original) The mask of claim 2, said mask having a central region and a periphery
2 region away from said central region, said first slot being located in said periphery region at a first
3 position not close to said central region, said first center being a first distance from said central

4 region, said second center being a second distance from said central region, said first distance being
5 less than said second distance, said first center being separated from said second center by a first
6 length as measured substantially parallel to said first surface of said mask.

1 4. (Original) The mask of claim 3, said slots formed by said bridges further including
2 a second slot, the electron beams entering said second slot at said second surface of said mask and
3 exiting said second slot at said first surface of said mask, said second slot at said second surface
4 having a first center as measured substantially parallel to said first surface of said mask, said second
5 slot at said first surface having a second center as measured substantially parallel to said first surface
6 of said mask, said first and second centers of said second slot not being aligned with each other.

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1 5. (Original) The mask of claim 4, said second slot being located in said periphery
2 region at a position close to said central region, said first center of said second slot being a third
3 distance from said central region, said second center of said second slot being a fourth distance from
4 said central region, said third distance being less than said fourth distance, said first center of said
5 second slot being separated from said second center of said second slot by a second length as
6 measured substantially parallel to said first surface of said mask, said second length being less than
7 said first length, said first distance being greater than said third distance.

1 6. (Original) The mask of claim 1, said plurality of bridges including first bridges near
2 a central region of said mask and including second bridges near a periphery region of said mask away
3 from said central region, a first width of said first bridges as measured perpendicular to a length

4 direction of said slots being smaller than a second width of said second bridges, said first and second
5 widths being measured perpendicular to the length direction of said slots.

1 7. (Original) The mask of claim 1, said plurality of bridges forming said slots in a
2 slotted region of said mask, said slots not being formed in a non-slotted region of said mask, said
3 plurality of bridges including first bridges near a center of said slotted region of said mask and
4 including second bridges near a periphery of said slotted region away from said center, said first
5 bridges being indented to a first predetermined depth, said second bridges being indented to a second
6 predetermined depth, said first predetermined depth being deeper than said second predetermined
7 depth.

1 8. (Original) The mask of claim 1, said plurality of bridges including first bridges near
2 a central region of said mask and including second bridges near a periphery region of said mask away
3 from said central region, a vertical length of said first bridges as measured substantially parallel to
4 a length direction of said slots being smaller than a vertical length of said second bridges as
5 measured substantially parallel to the length direction of said slots.

1 9. (Original) The mask of claim 1, each one of said slots formed by said plurality of
2 bridges having a first curved portion adjacent to an upper surface of said mask and having a second
3 curved portion adjacent to a lower surface of said mask, said first curved portion extending in the length
4 direction of said strips and having a first width as measured substantially perpendicular to a length
5 direction of said strips, said second curved portion extending in the length direction of said strips and

6 having a second width as measured substantially perpendicular to the length direction of said strips,
7 said first width being larger than said second width.

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10. (Original) The mask of claim 9, said slots formed by said bridges including a first slot, the electron beams entering said first slot at said second surface of said mask and exiting said first slot at said first surface of said mask, said first slot at said second surface having a first center as measured substantially parallel to said first surface of said mask, said first slot at said first surface having a second center as measured substantially parallel to said first surface of said mask, said first and second centers of said first slot not being aligned with each other.

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11. (Original) The mask of claim 10, said mask having a central region and a periphery region away from said central region, said first slot being located in said periphery region at a first position not close to said central region, said first center being a first distance from said central region, said second center being a second distance from said central region, said first distance being less than said second distance, said first center being separated from said second center by a first length as measured substantially parallel to said first surface of said mask.

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12. (Original) The mask of claim 11, said slots formed by said bridges further including a second slot, the electron beams entering said second slot at said second surface of said mask and exiting said second slot at said first surface of said mask, said second slot at said second surface having a first center as measured substantially parallel to said first surface of said mask, said second slot at said first surface having a second center as measured substantially parallel to said first surface

6 of said mask, said first and second centers of said second slot not being aligned with each other.

1 13. (Original) The mask of claim 12, said second slot being located in said periphery
2 region at a position close to said central region, said first center of said second slot being a third
3 distance from said central region, said second center of said second slot being a fourth distance from
4 said central region, said third distance being less than said fourth distance, said first center of said
5 second slot being separated from said second center of said second slot by a second length as
6 measured substantially parallel to said first surface of said mask, said second length being less than
7 said first length, said first distance being greater than said third distance.

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1 14. (Currently Amended) A method of manufacturing a mask for a color cathode ray
2 tube, the method comprising:

3 coating upper and lower surfaces of a thin plate with photosensitive films;
4 arranging an upper exposure mask on said upper surface of said thin plate, said upper
5 exposure mask having an exposure pattern with upper light transmission strips being formed in
6 parallel to each other;

7 arranging a lower exposure mask on said lower surface of said thin plate, said lower exposure
8 mask having an exposure pattern with lower light transmission strips being formed in parallel to each
9 other, and having lower light blocking bridges separating said lower light transmission strips;

10 exposing said photosensitive films to light in a state where said upper and lower exposure
11 masks are arranged on said thin plate;

12 separating said upper and lower exposure masks from said thin plate, and developing said

13 photosensitive films on said thin plate;

14 when said developing of said photosensitive films is performed, etching said thin plate; and

15 molding said thin plate ~~a mask~~ to have a predetermined curvature, said molded thin plate

16 corresponding to said mask for the color cathode ray tube.

Cathode Ray Tube
1 15. (Original) The method of claim 14, each of said upper light transmission strips
2 having a first width, each of the lower light transmission strips having a second width, said first
3 width being larger than said second width.

1 16. (Original) The method of claim 15, said upper exposure mask not having upper light
2 blocking bridges separating said upper light transmission strips.

1 17. (Original) The method of claim 14, said upper exposure mask not having upper light
2 blocking bridges separating said upper light transmission strips.

1 18. (Original) An exposure mask assembly, comprising:

2 an upper exposure mask being closely attached to an upper surface of a thin plate, said upper
3 surface being coated with photosensitive films, said upper exposure mask having an exposure pattern
4 with upper light transmission strips being formed in parallel to each other; and

5 a lower exposure mask being closely attached to a lower surface of said thin plate, said lower
6 surface being coated with photosensitive films, said lower exposure mask having an exposure pattern
7 with lower light transmission strips being formed in parallel to each other, and having lower light

8 blocking bridges separating said lower light transmission strips, said lower light blocking bridges
9 blocking light;

10 said photosensitive films on said upper and lower surfaces being exposed to light penetrating
11 said upper and lower exposure masks through said upper and lower light transmission strips,
12 respectively.

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1 19. (Original) The exposure mask assembly of claim 18, each of said upper light
2 transmission strips having a first width, each of the lower light transmission strips having a second
3 width, said first width being larger than said second width.

1 20. (Original) The exposure mask assembly of claim 19, said upper exposure mask not
2 having upper light blocking bridges separating said upper light transmission strips.

1 21. (Original) The exposure mask assembly of claim 18, said upper exposure mask not
2 having upper light blocking bridges separating said upper light transmission strips.

1 22. (New) The mask of claim 1, said plurality of strips corresponding to light blocking
2 strips, said first surface of said mask corresponding to an upper surface of said mask, said second
3 surface of said mask corresponding to a lower surface of said mask, said mask being manufactured
4 by coating upper and lower surfaces of said mask with photosensitive films, arranging an upper
5 exposure device on said upper surface of said mask, said upper exposure device having an exposure
6 pattern with upper light transmission strips being formed in parallel to each other, arranging a lower

7 exposure device on said lower surface of said mask, said lower exposure device having an exposure
8 pattern with lower light transmission strips being formed in parallel to each other and having lower
9 light blocking bridges separating said lower light transmission strips, exposing said photosensitive
10 films to light in a state where said upper and lower exposure devices are arranged on said mask,
11 separating said upper and lower exposure devices from said mask, developing said photosensitive
12 films on said mask, etching said mask when said developing of said photosensitive films is
13 performed, and molding said mask to have a predetermined curvature.

1 23. (New) The mask of claim 1, said plurality of strips corresponding to light blocking
2 strips, said first surface of said mask corresponding to an upper surface of said mask, said second
3 surface of said mask corresponding to a lower surface of said mask, said mask being formed by an
4 exposure mask assembly, said exposure mask assembly comprising:

5 an upper exposure device being closely attached to said upper surface of said mask, said
6 upper surface being coated with photosensitive films, said upper exposure device having an exposure
7 pattern with upper light transmission strips being formed in parallel to each other; and

8 a lower exposure device being closely attached to said lower surface of said mask, said lower
9 surface being coated with photosensitive films, said lower exposure device having an exposure
10 pattern with lower light transmission strips being formed in parallel to each other and having lower
11 light blocking bridges separating said lower light transmission strips, said lower light blocking
12 bridges blocking light;

13 said photosensitive films on said upper and lower surfaces being exposed to light penetrating
14 said upper and lower exposure devices through said upper and lower light transmission strips,

15 respectively.

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1 24. (New) The method of claim 14, said mask for the color cathode ray tube including
2 a plurality of light blocking strips parallel to each other and distinguishable from each other and
3 located at predetermined intervals, said mask for the color cathode ray tube including a plurality of
4 connecting bridges that connect adjacent ones of said light blocking strips to each other, said mask
5 for the color cathode ray tube including slots formed by said etching, said slots extending from said
6 upper surface to said lower surface and being penetrated by electron beams, said connecting bridges
7 being indented to a predetermined depth from said upper surface so that a thickness of said mask for
8 the color cathode ray tube at a central portion of said connecting bridges is relatively thinner than
9 a thickness of said mask for the color cathode ray tube at an outer portion of said connecting bridges.

1 25. (New) The method of claim 14, said upper and lower exposure masks forming an
2 exposure mask assembly, said upper exposure mask being closely attached to said upper surface of
3 said thin plate, said lower exposure mask being closely attached to said lower surface of said thin
4 plate, said exposing of said photosensitive films corresponding to light penetrating said upper and
5 lower exposure masks through said upper and lower light transmission strips, respectively.

1 26. (New) The exposure mask assembly of claim 18, said thin plate including a plurality
2 of light blocking strips parallel to each other and distinguishable from each other and located at
3 predetermined intervals, said thin plate including a plurality of connecting bridges that connect
4 adjacent ones of said light blocking strips to each other, said thin plate including slots that extend

5. from said upper surface to said lower surface and that are penetrated by electron beams, said
connecting bridges being indented to a predetermined depth from said upper surface of said thin
plate so that a thickness of said thin plate at a central portion of said connecting bridges is relatively
8. thinner than a thickness of said thin plate at an outer portion of said connecting bridges.

1. 27. (New) The exposure mask assembly of claim 18, said thin plate corresponding to a
2. mask for a cathode ray tube, said mask for the cathode ray tube being manufactured by separating
3. said upper and lower exposure masks from said thin plate after said photosensitive films are exposed
4. to light, developing said photosensitive films, etching said thin plate, and molding said thin plate to
5. have a predetermined curvature.